

Title (en)

METHOD AND DEVICE IN CLOSED HEATING PLANTS.

Title (de)

VERFAHREN UND VORRICHTUNG IN GESCHLOSSENEN HEIZANLAGEN.

Title (fr)

PROCEDE ET DISPOSITIF UTILISABLES DANS LES CHAUDIERES FERMEES POUR CHAUFFAGE CENTRAL.

Publication

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Application

EP 91902105 A 19910108

Priority

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- SE 9000007 A 19900108

Abstract (en)

[origin: WO9110868A1] A method of utilizing the high energy values of fossile fuels in central heating boiler systems. The boiler system comprises a processor which includes an air heat pump (5) which functions to cool the system flue gases by condensation. A first fan (10) generates a first circulation (C1) of boiler room air, via the air heat pump (5), this circulation of air also passing through a heat exchanger (4) where heat exchange takes place with the flue gases. A second air circulation (C2) is generated with the aid of a flue-gas fan (7) which removes flue gases from the boiler by suction, thereby generating a subpressure in the boiler room so that fresh air will be drawn in from the ambient surroundings, this air passing through the heat exchanger (4). A lower pressure is maintained on that side of the heat exchanger (4) on which the air/flue gas mixture (C2) flows into the heat exchanger, whereas a higher pressure is maintained on the other side of the heat exchanger (4) on which the cooling boiler-room air circulates (C1). This will ensure that flue gases will always flow out to the free atmosphere, via the heat exchanger (4).

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IPC 8 full level

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